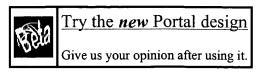


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Semantics of query languages for network databases

100%



Kazimierz Subieta

ACM Transactions on Database Systems (TODS) September 1985

Volume 10 Issue 3

Semantics determines the meaning of language constructs; hence it says much more than syntax does about implementing the language. The main purpose of this paper is a formal presentation of the meaning of basic language constructs employed in many database languages (sublanguages). Therefore, stylized query languages SSL (Sample Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in other query languages are collected. The semantics of SSL and J are ...

Design verification via simulation and automatic test pattern **4** generation

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Hussain Al-Asaad , John P. Hayes

Proceedings of the 1995 IEEE/ACM international conference on Computer-aided design December 1995

We present a simulation-based method for combinational design verification that aims at complete coverage of specified design errors using conventional ATPG tools. The error models used in prior research are examined and reduced to four types: gate substitution errors (GSEs), gate count errors (GCEs), input count errors (ICEs), and wrong input errors (WIEs). Conditions are derived for a gate to be completely testable for GSEs; These conditions lead to small test sets for GSEs. Near-minimal test ...

Sticky splines: definition and manipulation of spline structures with maintained topological relations

100%

C. W. A. M. van Overveld , Marie Luce Viaud ACM Transactions on Graphics (TOG) January 1996

Volume 15 Issue 1

This paper describes an augmentation to the spline concept to account for topological relations between different spline curves. These topological relations include incidence relations, constraining the extremes of spline curves to other spline curves, and also more general geometric relations, for example, involving the tangents of spline curves in their extremes. To maintain these incidence relations, some spline curves may have to be transformed (translated, rotated, scaled), or even def ...

4 Formal module level specifications

99%



B. P. Buckles

Proceedings of the 1977 annual conference January 1977

SSL (Software Specification Language) is part of the growing shift of emphasis in software engineering from the latter software development phases to the earlier ones. The purpose of the language is to aid in the process of decomposing functions into subfunctions or, equivalently, systems into subsystems and modules. A formal description of the syntax and semantics exists which has enabled the construction of an automatic translator. The translator makes a series of nontrivial consistency c ...

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Rolf Oppliger

Communications of the ACM May 1997

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Anish Bhimani

Communications of the ACM June 1996

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A security architecture for computational grids

Ian Foster , Carl Kesselman , Gene Tsudik , Steven Tuecke

Proceedings of the 5th ACM conference on Computer and communications security November 1998

8 Inductive analysis of the Internet protocol TLS

97%



Lawrence C. Paulson

ACM Transactions on Information and System Security (TISSEC) August 1999 Volume 2 Issue 3

Internet browsers use security protocols to protect sensitive messages. An inductive analysis of TLS (a descendant of SSL 3.0) has been performed using the theorem prover Isabelle. Proofs are based on higher-order logic and make no assumptions concerning beliefs of finiteness. All the obvious security goals can be proved; session resumption appears to be secure even if old session keys are compromised. The proofs suggest minor changes to simplify the analysis. TLS, even at an abs ...

9 High-level design verification of microprocessors via error modeling D. Van Campenhout , H. Al-Asaad , J. P. Hayes , T. Mudge , R. B. Brown

ACM Transactions on Design Automation of Electronic Systems (TODAES)

October 1998

Volume 3 Issue 4

A design verification methodology for microprocessor hardware based on modeling

97%

design errors and generating simulation vectors for the modeled errors via physical fault testing techniques is presented. We have systematically collected design error data from a number of microprocessor design projects. The error data is used to derive error models suitable for design verification testing. A class of basic error models is identified and shown to yield tests that provide good coverage of comm ...

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Linux Journal August 1997

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S. Cohen , O. Wolfson

Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems March 1989

We argue that the appropriate parallelization strategy for logic-program evaluation depends on the program being evaluated. Therefore, this paper is concerned with the issues of program-classification, and parallelization-strategies. We propose five parallelization strategies that differ based on the following criteria. Their evaluation cost, the overhead of communication and synchronization among processors, and the programs to which they are applicable. In particular, we start our study w ...

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Proceedings of the fourth ACM workshop on Role-based access control October 1999

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David Mazières , Michael Kaminsky , M. Frans Kaashoek , Emmett Witchel ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM

symposium on Operating systems principles December 1999 Volume 33 Issue 5

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

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J. F. Nunamaker , Benn R. Konsynski , Thomas Ho , Carl Singer **Communications of the ACM** December 1976

Volume 19 Issue 12

This paper describes the use of computer-aided analysis for the design and development of an integrated financial management system by the Navy Material Command Support Activity (NMCSA). Computer-aided analysis consists of a set of procedures and computer programs specifically designed to aid in the process of applications software design, computer selection and performance evaluation. There are four major components: Problem Statement Language, Problem Statement Analyzer, Generator of Alte ...

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ACM SIGPLAN Notices, Proceedings of the third ACM SIGPLAN symposium on Principles and practice of parallel programming April 1991 Volume 26 Issue 7

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Proceedings of the ACM Conference on The history of personal workstations January 1986

Between 1972 and 1980, the first distributed personal computing system was built at the Xerox Palo Alto Research Center. The system was composed of a number of Alto workstations connected by an Ethernet local network. It also included servers that provided centralized facilities. This paper describes the development of the hardware that was the basis of the system.

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